

#5

OIKE

RAW SEQUENCE LISTING

DATE: 10/18/2001

PATENT APPLICATION: US/09/738,599

TIME: 08:51:16

Input Set : A:\ES.txt

Output Set: N:\CRF3\10182001\I738599.raw

ENTERED

3 <110> APPLICANT: Nolan, Lisa
4 Horne, Shelley
6 <120> TITLE OF INVENTION: NUCLEIC ACID ENCODING AN AVIAN E. COLI ISS POLYPEPTIDE AND
METHODS OF USE
8 <130> FILE REFERENCE: 255.0001 0122
10 <140> CURRENT APPLICATION NUMBER: 09/738,599
11 <141> CURRENT FILING DATE: 2000-12-15
13 <150> PRIOR APPLICATION NUMBER: 09/282,352
14 <151> PRIOR FILING DATE: 1999-03-31
16 <150> PRIOR APPLICATION NUMBER: 09/023,221
17 <151> PRIOR FILING DATE: 1998-02-12
19 <160> NUMBER OF SEQ ID NOS: 26
21 <170> SOFTWARE: PatentIn version 3.0
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24 <211> LENGTH: 760
25 <212> TYPE: DNA
26 <213> ORGANISM: Escherichia coli
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31 cccgtataact cttgcagaag gagttctccg tcgggctact gtcatgggta atgcggggaa 120
33 tatggcgaca atacaacaca cctaaaagag taatggacag atgaagcggg ttattcattt 180
35 cccatgattc tgagtaccta ccaagtctga gtaaccactt ttatactttt aattttcgtt 240
37 catttagcta tcgtttaatt attatcacat aggattctgc cgtttttaac aatgcaggat 300
39 aataagatga aaaaaatggt attttctgcc gctctggcaa tgcttattac aggatgtgct 360
41 caacaaacgt ttactgttgg aaacaaaccg acagcagtaa caccaaagga aaccatcact, 420
43 catcatttct tcgtttcggg aattggacaa gagaaaactg ttgatgcagc caaaatttgt 480
45 ggcgggtgcag aaaatgttgt taaaacagaa actcagcaaa cattcgtaaa tggattgctc 540
47 ggttttatca cttttggcat ctatactccg ctggaagccc gggtatattg ctcaaatag 600
49 ttgccatcg atatggggag ctcatctgca ctgttcatta atatacttct gggtcccta 660
51 cagttgtttt tgcatagtga taagcctctc tctgagggag gaaataatcc tgttcagcga 720
53 tgtctgccag tcggggggct gcattatcca ccccgagggc 760
56 <210> SEQ ID NO: 2
57 <211> LENGTH: 102
58 <212> TYPE: PRT
59 <213> ORGANISM: Escherichia coli
61 <400> SEQUENCE: 2
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64 1 5 10 15
66 Met Leu Ile Thr Gly Cys Ala Gln Gln Thr Phe Thr Val Gly Asn Lys
67 20 25 30
69 Pro Thr Ala Val Thr Pro Lys Glu Thr Ile Thr His His Phe Phe Val
70 35 40 45
72 Ser Gly Ile Gly Gln Glu Lys Thr Val Asp Ala Ala Lys Ile Cys Gly
73 50 55 60
75 Gly Ala Glu Asn Val Val Lys Thr Glu Thr Gln Gln Thr Phe Val Asn
76 65 70 75 80
78 Gly Leu Leu Gly Phe Ile Thr Phe Gly Ile Tyr Thr Pro Leu Glu Ala
79 85 90 95

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86 <212> TYPE: DNA
C--> 87 <213> ORGANISM: Artificial
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Primer
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96 <210> SEQ ID NO: 4
97 <211> LENGTH: 17
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101 <220> FEATURE:
102 <223> OTHER INFORMATION: Primer
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111 <213> ORGANISM: Escherichia coli
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116 ggatgtgctc aacaaacggt tactgttgga aacaaaccga cagcagtaac accaaaggaa      120
118 accatcactc atcatttctt cgtttcccca attggacaga gaaaactgtt gatgcagcca      180
120 aaatttggtg gcggtgcaga aaatgttggt aaaacagaaa ctcagcaaac attcgtaaatt      240
122 gcattgcccg gttttatcac ttttggcacc tatactccgc gggaaaccgc tgtatattgc      300
124 tcacaatag          309
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128 <211> LENGTH: 309
129 <212> TYPE: DNA
130 <213> ORGANISM: Bacteriophage lambda
132 <400> SEQUENCE: 6
133 atcgggaata acaccatgaa aaaaatgcta ctgcgtactg cgctggccct gcttattaca      60
135 ggatgtgctc aacagacggt tactgttcaa aacaaaccgg cagcagtagc accaaaggaa      120
137 accatcaccc atcatttctt cgtttctgga attgggcaga agaaaactgt cgatgcagcc      180
139 aaaatttggt gcggcgcaga aaatgttggt aaaacagaaa cccagcaaac attcgtaaatt      240
141 ggattgctcg gttttattac ttttaggcatt tatactccgc tggaagcgcg tgtgtattgc      300
143 tcacaataa          309
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147 <211> LENGTH: 102
148 <212> TYPE: PRT
149 <213> ORGANISM: Escherichia coli
151 <400> SEQUENCE: 7
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154 1          5          10          15
156 Met Leu Ile Thr Gly Cys Ala Gln Gln Thr Phe Thr Val Gly Asn Lys
157          20          25          30

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159 Pro Thr Ala Val Thr Pro Lys Glu Thr Ile Thr His His Phe Phe Val
160          35                      40                      45
162 Ser Pro Ile Gly Gln Arg Lys Leu Leu Met Gln Pro Lys Phe Val Gly
163      50                      55                      60
165 Gly Ala Glu Asn Val Val Lys Thr Glu Thr Gln Gln Thr Phe Val Asn
166 65                      70                      75                      80
168 Ala Leu Pro Gly Phe Ile Thr Phe Gly Ile Tyr Thr Pro Arg Glu Thr
169          85                      90                      95

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171 Arg Val Tyr Cys Ser Gln

172 100

174 <210> SEQ ID NO: 8

175 <211> LENGTH: 97

176 <212> TYPE: PRT

177 <213> ORGANISM: Bacteriophage lambda

179 <400> SEQUENCE: 8

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185 20 25 30

187 Pro Lys Glu Thr Ile Thr His His Phe Phe Val Ser Gly Ile Gly Gln

188 35 40 45

190 Lys Lys Thr Val Asp Ala Ala Lys Ile Cys Gly Gly Ala Glu Asn Val

191 50 55 60

193 Val Lys Thr Glu Thr Gln Gln Thr Phe Val Asn Gly Leu Leu Gly Phe

194 65 70 75 80

196 Ile Thr Leu Gly Ile Tyr Thr Pro Leu Glu Ala Arg Val Tyr Cys Ser

197 85 90 95

199 Gln

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204 <212> TYPE: DNA

C--> 205 <213> ORGANISM: Artificial

207 <220> FEATURE:

208 <223> OTHER INFORMATION: Primer

210 <400> SEQUENCE: 9

211 cttgcggagg cttgtctgag

20

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216 <212> TYPE: DNA

C--> 217 <213> ORGANISM: Artificial

219 <220> FEATURE:

220 <223> OTHER INFORMATION: Primer

222 <400> SEQUENCE: 10

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226 <210> SEQ ID NO: 11

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C--> 229 <213> ORGANISM: Artificial

231 <220> FEATURE:

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232 <223> OTHER INFORMATION: Primer
234 <400> SEQUENCE: 11
235 aaaggggatc catgcaggat aataagatga aaaa 34
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239 <211> LENGTH: 34
240 <212> TYPE: DNA
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243 <220> FEATURE:
244 <223> OTHER INFORMATION: Primer
246 <400> SEQUENCE: 12
247 cacaggggatc ccaaacgttt actgttgga acaa 34
250 <210> SEQ ID NO: 13
251 <211> LENGTH: 31
252 <212> TYPE: DNA
C--> 253 <213> ORGANISM: Artificial
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Primer
258 <400> SEQUENCE: 13
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262 <210> SEQ ID NO: 14
263 <211> LENGTH: 23
264 <212> TYPE: DNA
C--> 265 <213> ORGANISM: Artificial
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Primer
270 <400> SEQUENCE: 14
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274 <210> SEQ ID NO: 15
275 <211> LENGTH: 23
276 <212> TYPE: DNA
C--> 277 <213> ORGANISM: Artificial
279 <220> FEATURE:
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286 <210> SEQ ID NO: 16
287 <211> LENGTH: 19
288 <212> TYPE: DNA
C--> 289 <213> ORGANISM: Artificial
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Primer
294 <400> SEQUENCE: 16
295 caccagcttg taaaacgac 19
298 <210> SEQ ID NO: 17
299 <211> LENGTH: 20
300 <212> TYPE: DNA
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303 <220> FEATURE:
304 <223> OTHER INFORMATION: Primer

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Input Set : A:\ES.txt

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311 <211> LENGTH: 23
312 <212> TYPE: DNA
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315 <220> FEATURE:
316 <223> OTHER INFORMATION: Primer
318 <400> SEQUENCE: 18
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322 <210> SEQ ID NO: 19
323 <211> LENGTH: 23
324 <212> TYPE: DNA
C--> 325 <213> ORGANISM: Artificial
327 <220> FEATURE:
328 <223> OTHER INFORMATION: Primer
330 <400> SEQUENCE: 19
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334 <210> SEQ ID NO: 20
335 <211> LENGTH: 113
336 <212> TYPE: PRT
337 <213> ORGANISM: Escherichia coli
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342 1 5 10 15
344 Met Lys Lys Met Leu Phe Ser Ala Ala Leu Ala Met Leu Ile Thr Gly
345 20 25 30
347 Cys Ala Gln Gln Thr Phe Thr Val Gly Asn Lys Pro Thr Ala Val Thr
348 35 40 45
350 Pro Lys Glu Thr Ile Thr His His Phe Phe Val Ser Gly Ile Gly Gln
351 50 55 60
353 Glu Lys Thr Val Asp Ala Ala Lys Ile Cys Gly Gly Ala Glu Asn Val
354 65 70 75 80
356 Val Lys Thr Glu Thr Gln Gln Thr Phe Val Asn Gly Leu Leu Gly Phe
357 85 90 95
359 Ile Thr Phe Gly Ile Tyr Thr Pro Leu Glu Ala Arg Val Tyr Cys Ser
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366 <211> LENGTH: 378
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368 <213> ORGANISM: Escherichia coli
370 <400> SEQUENCE: 21
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373 ttatttttctg ccgctctggc aatgcttatt acaggatgtg ctcaacaaac gtttactgtt 120
375 ggaaacaaac cgacagcagt aacaccaaag gaaaccatca ctcattcatt cttcgtttcg 180
377 ggaattggac aagagaaaac tgttgatgca gccaaaattt gtggcgggtgc agaaaatgtt 240
379 gttaaaacag aaactcagca aacattcgta aatggattgc tcggttttat cacttttggc 300
381 atctatactc cgctggaagc ccgggtatat tgctcacaat agttgcccac cgatatgggg 360

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/738,599

DATE: 10/18/2001

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Input Set : A:\ES.txt

Output Set: N:\CRF3\10182001\I738599.raw

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L:205 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:217 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:229 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:241 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:253 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:265 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:277 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:289 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:301 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:313 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
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